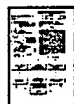




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JP2200196A2: PRODUCTION OF LOW MOLECULAR WEIGHT CHITOSAN

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Country: **JP Japan**

Kind:

Inventor(s): **SEKIGUCHI TADAO
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Applicant(s): **NIPPON KAYAKU CO LTD**
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Issued/Filed Dates: **Aug. 8, 1990 / Jan. 31, 1989**

Application Number: **JP1989000019454**

IPC Class: **C12P 19/14;**

Abstract: **Purpose:** To efficiently obtain low molecular weight chitosan in safety and low cost by treating chitosan with at least one of neutral protease and lipase having decomposing ability of chitosan.
Constitution: Natural chitin derived from lobster or crab, etc., is deacetylated with NaOH, etc., to obtain chitosan having about 106 molecular weight. Next, said chitosan is treated with HCl, etc., to obtain chitosan solution having pH3-6 and 1-20wt.% chitosan concentration. Then, at least one of neutral protease such as protin P or lipase such as lipase P 'Amano' is added to said solution in an amount of 0.001-10w/w% to chitosan and reacted at 40-50°C for 1-100 hour to obtain reacted substance. Thus, the reacted substance is filtered and pH is adjusted to about 8, then generated precipitation is removed, thus purified with ion exchange resin, etc., to produce low molecular weight chitosan having 405 molecular weight.
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Other Abstract Info: **CHEMABS 113(25)229730N CAN113(25)229730N DERABS C90-285865
DERC90-285865**

Foreign References: **(No patents reference this one)**



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